

Name: \_\_\_\_\_

**at1113exam: Expand, factor, and solve quadratics (v315)**

1. Solve the equation.

$$(9x - 8)(7x - 3) = 0$$

2. Expand the following expression into standard form.

$$(3x - 4)(9x - 2)$$

3. Expand the following expression into standard form.

$$(8x + 3)^2$$

4. Expand the following expression into standard form.

$$(7x + 3)(7x - 3)$$

5. Solve the equation.

$$9x^2 + 72x + 40 = 2x^2 + 5x + 4$$

6. Factor the expression.

$$81x^2 - 16$$

7. Solve the equation with factoring by grouping.

$$12x^2 + 10x + 18x + 15 = 0$$

8. Factor the expression.

$$x^2 + 3x - 28$$